

# **NEW SOURCE CONSTRUCTION AND MINOR SOURCE OPERATING PERMIT**

## **INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY AND INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

**Carrier Corporation  
7310 West Morris Street  
Indianapolis, Indiana 46206**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 097-15061-00015

Issued by:

Jodi Perras Kusmer  
Acting Administrator  
OES

Issuance Date:

Expiration Date:

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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates stationary source, an aluminum air conditioning and furnace coil fin stock manufacturing facility.

Authorized Individual: Jami Norton Gay  
Source Address: 7310 W. Morris Street, Indianapolis, Indiana 46206  
Mailing Address: 7310 W. Morris Street, Indianapolis, Indiana 46206  
Phone Number: (317)-481-5746  
SIC Code: 3585  
County Location: Marion  
County Status: Attainment for all criteria pollutants  
Source Status: Minor Source Operating Permit

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (a) Four (4) existing Burr Oak fin presses Emission Unit IDs P-1, P-2, P-3, and P-4, with maximum capacity throughput of 500 pounds of feedstock rolled aluminum per hour each, and two (2) new Burr Oak fin presses Emission Unit ID's P-5 and P-6, with maximum capacity throughput 556 pounds of feedstock rolled aluminum per hour each, utilizing Arrow KT-70-2-FR as metal stamping fluid (petroleum solvent) containing 70% VOC by weight. Emissions are exhausted to the atmosphere through the Stack GV-1.
- (b) One (1) existing Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 100 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 20 liters per minute or 115,707 gallons of water per year, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.
- (c) Five (5) existing Aqueous Detergent Parts Washer Systems, Emission Unit ID's W-1, W-2, W-3, W-4, and W-5, consisting of wash/rinse furnaces burning natural gas with total maximum capacity of 29.1 million cubic feet of Natural Gas per year and parts washers using cleaners containing glycol ether with maximum usage capacity of 37,000 pounds per year each. Parts Washer Systems Emission Unit ID's W-2 and W-3 were installed in 1994, W-1 - in 1993, W-5 - in 1999. Emission are exhausted to the atmosphere through the Stacks PE-35, PE-15, PE-37, PE-45, and PE-41;
- (d) Two (2) existing Autobrazers, Emission Units ID's AB-1 and AB-2, burning natural gas, with total maximum capacity of 11.8 million cubic feet of Natural Gas per year. Emission are exhausted to the atmosphere through the Stacks PE-39 and PE-50.

## **SECTION B GENERAL CONSTRUCTION CONDITIONS**

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW WHICH APPLY TO NEW FIN PRESSES EMISSION UNIT ID's P-5, P-6, AND P-7.

### **B.1 Permit No Defense [IC 13]**

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This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

### **B.2 Definitions**

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

### **B.3 Effective Date of the Permit [IC13-15-5-3]**

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Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

### **B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

### **B.5 Modification to Permit [326 IAC 2]**

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Notwithstanding the Section B condition entitled "Minor Source Operating Permit", all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

### **B.6 Minor Source Operating Permit [326 IAC 2-6.1]**

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This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Indianapolis Office of Environmental Services (OES).
  - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to OES.
  - (2) If the Affidavit of Construction does not verify that the facilities covered in this Construction Permit were constructed as proposed in the application, then the Permittee shall receive an Operation Permit Validation Letter from the OES Administrator prior to beginning operation of the facilities.
- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) Upon receipt of the Operation Permit Validation Letter from the OES Administrator, the Permittee shall attach it to this document.
- (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).

**B.7 Permit Term [326 IAC 2-6.1-7(a)]**

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

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Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source
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**C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]**

- (a) The total source potential to emit of each criteria air pollutant is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.
- (b) Any change or modification which may increase potential to emit to 250 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAQ and OES prior to making the change.
- (c) Any change or modification which may increase potential to emit to 10 tons per year of any single hazardous air pollutant, twenty-five tons per year of any combination of hazardous air pollutants, or 100 tons per year of any other regulated pollutant from this source, shall cause this source to be considered a major source under Part 70 Permit Program, 326 IAC 2-7, and shall require approval from IDEM, OAQ and OES prior to making the change.

**C.2 Preventive Maintenance Plan [326 IAC 1-6-3]**

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAQ, and OES upon request and shall be subject to review and approval by IDEM, OAQ, and OES. IDEM, OAQ, and OES may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

**C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]**

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Office of Air Quality,  
Permits Branch,  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Office of Environmental Services  
Air Quality Section, Data Compliance  
2700 South Belmont Avenue  
Indianapolis, Indiana 46221

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM OAQ, OES and U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-7-6(6)]

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch and OES, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

- (c) IDEM, OAQ, and OES shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

**C.6 Permit Revocation [326 IAC 2-1-9]**

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Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM and OES, the fact that continuance of this permit is not consistent with purposes of this article.

**C.7 Opacity [326 IAC 5-1]**

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Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

**C.8 Fugitive Dust Emissions [326 IAC 6-4]**

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The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

**Testing Requirements**

**C.9 Performance Testing [326 IAC 3-6]**

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- (a) If required by a specific condition in Section D of this approval, compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ and OES.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:



Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Office of Environmental Services  
Air Compliance Section  
2700 South Belmont Avenue  
Indianapolis, Indiana 46221

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAQ and OES within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, and OES, if the source submits to IDEM, OAQ, and OES a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

### **Compliance Monitoring Requirements**

#### **C.10 Compliance Monitoring [326 IAC 2-1.1-11]**

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

#### **C.11 Monitoring Methods [326 IAC 3]**

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

#### **C.12 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-6.1-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit, if required by a specific condition in section D of this approval, exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, and OES within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM, OAQ and OES shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ and OES reserves the authority to use enforcement activities to resolve noncompliant stack tests.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ and OES that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

## **Record Keeping and Reporting Requirements**

### **C.13 Malfunctions Report [326 IAC 1-6-2]**

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Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), and Indianapolis OES or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ and OES, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

### **C.14 Annual Emission Statement [326 IAC 2-6]**

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- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
  - (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
  - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Office of Environmental Services  
Air Compliance Section  
2700 South Belmont Avenue  
Indianapolis, Indiana 46221

- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.15 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM and OES may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

**C.16 General Record Keeping Requirements [326 IAC 2-6.1-2]**

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- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, and OES representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or OES make a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or OES within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
  - (1) The date, place, and time of sampling or measurements;
  - (2) The dates analyses were performed;
  - (3) The company or entity performing the analyses;
  - (4) The analytic techniques or methods used;
  - (5) The results of such analyses; and
  - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
  - (1) Copies of all reports required by this permit;
  - (2) All original strip chart recordings for continuous monitoring instrumentation;
  - (3) All calibration and maintenance records;
  - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented when operation begins.

**C.17 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

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- (a) Annual notification shall be submitted to the Office of Air Quality and OES stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management  
Office of Air Quality, Compliance Data Section  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015

and

Office of Environmental Services  
Air Compliance Section  
2700 South Belmont Avenue  
Indianapolis, Indiana 46221

- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.

## SECTION D.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) Four (4) existing Burr Oak fin presses Emission Unit IDs P-1, P-2, P-3, and P-4, with maximum capacity throughput of 500 pounds of feedstock rolled aluminum per hour each, and two (2) new Burr Oak fin presses Emission Unit ID's P-5 and P-6, with maximum capacity throughput 556 pounds of feedstock rolled aluminum per hour each, utilizing Arrow KT-70-2-FR as metal stamping fluid (petroleum solvent) containing 70% VOC by weight. Emissions are exhausted to the atmosphere through the Stack GV-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards

#### D.1.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]

Potential VOC emissions from each fin press Emission Unit IDs ## P-1 - P-6 are less than 25 tons per year, therefore, the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply.

### Record Keeping and Reporting Requirements

#### D.1.2 Record Keeping Requirements

- (a) Records of the amount and VOC content of the metal stamping fluid Arrow KT-70-2-FR shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type, amount used and the annual emissions.
- (b) All records shall be maintained in accordance with Section C.16 - General Record Keeping Requirements, of this permit.

## SECTION D.2

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) existing Soil Remediation System (removal of perchloroethylene from soil and groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 100 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 20 liters per minute or 115,707 gallons of water per year, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction (SVE). Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

## Record Keeping and Reporting Requirements

### D.2.1 Record Keeping Requirements

- (a) Records of Perchloroethylene (PCE) and/or any other HAP emissions from this soil and groundwater remediation system shall include HAP concentrations, exhaust flow rates, and monthly HAP emissions.
- (b) All records shall be maintained in accordance with Section C.16 - General Record Keeping Requirements, of this permit.

## SECTION D.3

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) Five (5) existing Aqueous Detergent Parts Washer Systems, Emission Unit ID's W-1, W-2, W-3, W-4, and W-5, consisting of wash/rinse furnaces burning natural gas with total maximum capacity of 29.1 million cubic feet of Natural Gas per year and parts washers using cleaners containing glycol ether with maximum usage capacity of 37,000 pounds per year each. Parts Washer Systems Emission Unit ID's W-2 and W-3 were installed in 1994, W-1 - in 1993, W-5 - in 1999. Emission are exhausted to the atmosphere through the Stacks PE-35, PE-15, PE-37, PE-45, and PE-41;

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards

- D.3.1 326 IAC 8-1-1 (b) & (c) (General Provisions relating to VOC rules: applicability)  
326 IAC 8-3 (Organic Solvent Degreasing Operations)

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Any change or modification to the Emission Units ID's W-1, W-2, W-3, W-4, and W-5 which may increase their individual actual VOC emission before add-on controls to 15 pounds per day shall obtain prior approval from the Environmental Resource Management Division (OES) and IDEM Office of Air Quality (OAQ).

Compliance with this conditions shall make the 326 8-3 (Organic Solvent Degreasing Operations) not applicable.

### Record Keeping and Reporting Requirements

- D.3.2 Record Keeping Requirements

- 
- (a) Records of the amount and VOC/HAP content of the cleaners used in the parts washers Emission Units ID's W-1, W-2, W-3, W-4, and W-5 shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type, amount used and the annual emissions.
- (b) All records shall be maintained in accordance with Section C.16 - General Record Keeping Requirements, of this permit.



**City of Indianapolis  
Office of Environmental Services  
Compliance Data Group  
2700 S. Belmont Ave.  
Indianapolis, Indiana 46221-2097  
Phone: 317 / 327-2234, Fax: 317 / 327- 2274**

**Malfunction / Excess Emissions Report**

Company Name: **Carrier Corporation**

Location: **7310 West Morris Street, Indianapolis, Indiana 46206**

Permit No.: **097-15061-00015**

Source/Facility:

Control/Device Which Malfunctioned:
Affected Facility:
Date of Malfunction:
Start Time of Malfunction:
Duration Time of Out of Service: Pollutant/s Emitted During Malfunction: TSP, PM10, SO <sub>2</sub> , VOC, Other:  Estimate of Amount of Pollutant Emitted During the Malfunction (include how estimate was determined):
Measures Taken to Minimize Shutdown Time:
Reasons Why Facility Cannot be Shutdown During Repairs:
Interim Control Measures:
Measures Taken to Correct Malfunction:

Malfunction Reported By:	
Title: Signature:	
Date:	Time:

The filing of such information is mandated by Federal, State, and Local Air Pollution Legislation. Violation of this mandate through omission or false information may be subject to penalty.

Submitted by: \_\_\_\_\_ Title/Position: \_\_\_\_\_  
(Print)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Carrier Corporation  
Indianapolis, Indiana

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES  
AIR QUALITY MANAGEMENT SECTION  
AIR COMPLIANCE**

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<b>Company Name:</b> Carrier Corporation
<b>Address:</b> 7310 W. Morris Street
<b>City:</b> Indianapolis
<b>Phone #:</b> (317)-481-5746
<b>MSOP #:</b> 097-15061-00015

I hereby certify that **Carrier Corporation** is

- ☐ still in operation.
- ☐ no longer in operation.

I hereby certify that **Carrier Corporation** is

- ☐ in compliance with the requirements of **MSOP 097-15061-00015**.
- ☐ not in compliance with the requirements of **MSOP 097-15061-00015**.

<b>Authorized Individual (typed):</b>
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

Mail to: Office of Environmental Services  
Air Quality Management Section  
2700 South Belmont Avenue  
Indianapolis, Indiana 46221-2097

**Affidavit of Construction**

I, \_\_\_\_\_, being duly sworn upon my oath, depose and say:  
(Name of the Authorized Representative)

1. I live in \_\_\_\_\_ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of \_\_\_\_\_ for \_\_\_\_\_.  
(Title) (Company Name)
3. By virtue of my position with \_\_\_\_\_, I have personal  
(Company Name)  
knowledge of the representations contained in this affidavit and am authorized to make  
these representations on behalf of \_\_\_\_\_.  
(Company Name)
4. I hereby certify that Carrier Corporation has constructed the following: two (2) new Burr Oak fin presses for stamping of aluminum feedstock to produce air conditioning and furnace coil fin stock, Emission Unit ID's P-5 and P-6, utilizing as metal stamping fluid Evaporative Lubricant Arrow KT-70-2-FR as metal stamping fluid (petroleum solvent) containing 70% VOC by weight, with maximum capacity throughput 556 lb/min of feedstock rolled aluminum each, in conformity with the requirements and intent of the construction permit application received by the Office of Environmental Services on October 15, 2001 and as permitted pursuant to **MSOP No. 097-15061-00015** issued on \_\_\_\_  
\_\_\_\_\_

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

STATE OF INDIANA)  
)SS

COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to me, a notary public in and for \_\_\_\_\_ County and State of Indiana on  
this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

My Commission expires: \_\_\_\_\_

\_\_\_\_\_  
Signature

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
Indianapolis Office of Environmental Services**

Technical Support Document (TSD) for a

**NEW SOURCE CONSTRUCTION  
AND MINOR SOURCE OPERATING PERMIT**

**Source Background and Description**

<b>Source Name:</b>	<b>Carrier Corporation</b>
<b>Source Location:</b>	<b>7310 West Morris Street, Indianapolis, IN 46206</b>
<b>County:</b>	<b>Marion</b>
<b>SIC Code:</b>	<b>3585</b>
<b>Operation Permit No.:</b>	<b>097-15061-00015</b>
<b>Permit Reviewer:</b>	<b>Boris Gorlin</b>

The Indianapolis Office of Environmental Services (OES) has reviewed an application from Carrier Corporation relating to the construction and operation of an aluminum air conditioning coil manufacturing facility.

The source consists of the following permitted and new emission units:

- (a) Three (3) **new** Burr Oak fin presses for stamping of aluminum feedstock to produce air conditioning coil fin stock, Emission Unit ID's P-5, P-6 and P-7, utilizing Evaporative Lubricant Arrow 8997 FR (mineral spirit) as metal stamping fluid containing 60% VOC by weight, with maximum capacity throughput 350 lb/min of feedstock rolled aluminum each. Fin presses EU ID P-5, P-6 and P-7 have not yet been installed.
- (b) Four (4) existing Burr Oak fin presses Emission Unit IDs P-1, P-2, P-3, and P-4 utilizing Arrow KT-7-2-FR as metal stamping fluid (mineral spirit) containing 70% VOC by weight, with maximum capacity throughput of 500 pounds of feedstock rolled aluminum. Emissions are exhausted to the atmosphere through the Stack GV-1;
- (c) One (1) existing Soil Remediation System (removal of perchloroethylene from groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 100 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 20 liters per minute or 115,707 gallons of water per year, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.

- (d) Five (5) existing Aqueous Detergent Parts Washer Systems, Emission Unit ID's W-1, W-2, W-3, W-4, and W-5, consisting of wash/rinse furnaces burning natural gas with total maximum capacity of 29.1 million cubic feet of Natural Gas per year and parts washers using cleaners containing glycol ether with maximum usage capacity of 37,000 pounds per year each. Parts Washer Systems Emission Unit ID's W-2 and W-3 were installed in 1994, W-1 - in 1993, W-5 - in 1999. Emission are exhausted to the atmosphere through the Stacks PE-35, PE-15, PE-37, PE-45, and PE-41;
- (e) Two (2) existing Autobrazers, Emission Units ID's AB-1 and AB-2, burning natural gas, with total maximum capacity of 11.8 million cubic feet of Natural Gas per year. Emission are exhausted to the atmosphere through the Stacks PE-39 and PB-50.

### Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

### Existing Approvals

The source (previously United Technologies Carrier) has been operating under previous approvals including, but not limited to, the following:

- (a) Certificate of Operation 0015-02, issued on February 17, 1994 (Soil Remediation System);
- (b) Certificate of Operation 0015-01, issued on December 5, 1994 (0015-02 reissued);
- (f) CP 098-0015-01, issued on December 23, 1998 (Fin Press EU ID P-3).

All conditions from the previous approvals were incorporated into this permit except the following:

- (a) All conditions from Certificates of Operation 0015-02 and 0015-01, because the Soil Remediation System Emission Unit ID SR-1 PTE (0.221 ton/yr of VOC/HAP) is currently below the significance level and would be exempted from permitting requirements.

### Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
GV-1 Roof Vent	Fin Presses	24	2.5		Ambient
RE-1	Soil Remediation System Exhaust	10	0.33	100	Ambient
PE-35	127 Furnace Washer Exhaust	35	2	100	Ambient
PE-15	127 Furnace Washer Exhaust	35	2	100	Ambient
PE-37	127 Furnace Washer Exhaust	35	2	100	Ambient
PE-45	127 Furnace Washer Exhaust	35	2	100	Ambient
PE-41	127 Furnace Washer Exhaust	35	2	100	Ambient
PE-39	163 Autobrazer Exhaust	35	1	2,356	1000
PE-50	164 Autobrazer Exhaust	35	1	2,356	1000

## Enforcement Issue

There are no enforcement actions pending.

## Recommendation

The staff recommends to the Administrator that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on October 15, 2001, with additional information received on October 20, October 26, 2001, and November 28, 2001.

## Emission Calculations

See Appendix A of this document for detailed emissions calculations (three pages).

## Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential To Emit (tons/year)		
	Existing Emission Units	New Emission Units (3 fin presses)	Total Sourcewide Emissions after new construction (3 fin presses)
PM	0.2	0	0.2
PM-10	0.2	0	0.2
SO <sub>2</sub>	0.01	0	0.01
VOC	58.0	<b>41.0</b>	<b>99.0</b>
CO	0.4	0	0.4
NO <sub>x</sub>	2.0	0	2.0
<b>HAP's</b>			
Perchloroethylene	2.3	0	2.3
<b>TOTAL HAP's</b>	<b>2.3</b>	<b>0</b>	<b>2.3</b>

- The potential to emit (as defined in 326 2-7-1(29)) of pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- The potential to emit (as defined in 326 2-7-1(29)) of pollutants is greater than 25 tons per year, therefore, the source is subject to the provisions of 326 IAC 2-6.1.
- The potential to emit (as defined in 326 2-7-1(29)) of any single HAP is less than 10 tons per year and the potential to emit (as defined in 326 2-7-1(29)) of any combination of HAPs is less than 25 tons per year, therefore, the source is not subject to the provisions of 326 IAC 2-7.

## Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1999 Annual Emission Statement.

Pollutant	Actual Emissions (tons/year)
PM	Not reported
PM-10	Not reported
SO <sub>2</sub>	0.0702
VOC	13.22
CO	0.71
NO <sub>x</sub>	3.55
HAP (specify)	0.138

## County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	Attainment
SO <sub>2</sub>	Maintenance
NO <sub>2</sub>	Attainment
Ozone	Maintenance
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Marion County has been classified as attainment or unclassifiable for all the criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

## Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	0.2
PM10	0.01
SO <sub>2</sub>	2.0
VOC	99.0
CO	0.4
NO <sub>x</sub>	2.0

- (a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.

- (b) These emissions were based on previously issued permits and the MSOP application submitted by the company.

## **Part 70 Permit Determination**

### **326 IAC 2-7 (Part 70 Permit Program)**

This existing source, with total potential to emit (PTE) as indicated in this permit **097-15061-00015**, is still not subject to the Part 70 Permit requirements because the PTE of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This status is based on all the air approvals issued to the source. This status has been verified by the OES inspector assigned to the source.

## **Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) The fin presses Emission Units P-1 - P-7 are not subject to 40CFR Part 63 NESHAP, Subpart NNNN (Surface Coating of Large Appliances), because the metal stamping fluid (Evaporative Lubricant) is Protective Oil which is not considered "coating" for the purposes of this subpart.

There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR art 63) applicable to this source.

## **State Rule Applicability - Entire Source**

### **326 IAC 2-4.1-1 (New Source Toxics Rule)**

The sourcewide HAPs PTE is 2.256 ton/yr (0.221 ton/yr of Perchloroethylene from the Soil Remediation System EU ID #SR-1 and 2.035 ton/yr of Glycol Ether from the Parts Washer Systems EU ID's # W3, W4 and W5) .

No HAPs will be emitted at 10 ton/yr of individual HAP or 25 ton/yr of combined HAP emissions. Therefore, this New Source Toxics Rule (326 IAC 2-4.1-1), will not apply.

### **326 IAC 2-6 (Emission Reporting)**

This source is subject to 326 IAC 2-6 (Emission Reporting), because the source emits more than 10 tons/yr of VOC. Pursuant to this rule, the owner/operator of this source must annually submit an emission statement of the source. The annual statement must be received by April 15 of each year and must contain the minimum requirements as specified in 326 IAC 2-6-4.

### **326 IAC 8-2-4 (Coil coating operations)**

This source is not subject to 326 IAC 8-2-4 (Coil coating operations) because the evaporative lubricant does not contain solids.

### **326 IAC 8-2-9 (Surface Coating Emission Limitations: miscellaneous metal coating operations)**

This source is not subject to 326 IAC 8-2-9 (Surface Coating Emission Limitations: miscellaneous metal coating operations) because the evaporative lubricant is used for temporary surface preparation prior to stamping and is not used to prevent sticking of internally moving parts. Also, the coating does not contain solids.



**326 IAC 8-1-6 (New facilities; general reduction requirements)**

This source is not subject to 326 IAC 8-1-6 (New facilities; general reduction requirements) because the new and existing fin presses Emission Units ID's ## P-1 - P-7 are operating independently from each other, and potential emissions from each fin press are less than 25 tons per year (see Emission Calculations, Appendix A).

**326 IAC 5-1 (Opacity Limitations)**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

**State Rule Applicability - Individual Facilities**

**326 IAC 8-3-2 (Organic Solvent Degreasing Operations: Cold Cleaner Operation)**

**326 IAC 8-3-5 (Cold cleaner degreaser operation and control)**

Five (5) Aqueous Detergent Parts Washer Systems, Emission Unit ID's W-1, W-2, W-3, W-4, and W-5, existing as of July 1, 1990, using cleaners containing glycol ether with maximum usage capacity of 37,000 gallons per year each, are subject to these rules.

- (a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), the owner or operator of this facility shall:
  - (1) equip the cleaner with a cover;
  - (2) equip the cleaner with a facility for draining cleaned parts;
  - (3) close the degreaser cover whenever parts are not being handled in the cleaner;
  - (4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
  - (5) provide a permanent, conspicuous label summarizing the operating requirements;
  - (6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (b) Pursuant to 326 IAC 8-3-5 (Cold cleaner degreaser operation and control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
    - (B) the solvent is agitated; or
    - (C) the solvent is heated.

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
  - (a) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (b) A water cover when solvent used is insoluble in, and heavier than, water.
  - (c) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (c) Pursuant to 326 IAC 8-3-5 (b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
  - (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

### 326 IAC 2-1.1-3 Exemptions

Pursuant to 326 IAC 2-1.1-3(d)(5)(A), the wash/rinse Natural Gas furnaces Emission Units ID's W-1, W-2, W-3, W-4, and W-5, and Autoabrazers Emission Units ID's AB-1 and AB-2 are exempt from permitting requirements as heat treat furnaces with heat input less than 10 MMBtu per hour each.

No other rules and requirements apply to these emission units.

### Conclusion

The construction and operation of this aluminum air conditioning coil manufacturing facility shall be subject to the conditions of the attached proposed **New Source Construction and Minor Source Operating Permit 097-15061-00015**.

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
Indianapolis Office of Environmental Services**

**Addendum to the  
Technical Support Document (TSD) for an MSOP**

**Source Name:** Carrier Corporation  
**Source Location:** 7310 West Morris Street, Indianapolis, IN 46206  
**County:** Marion  
**SIC Code:** 3585  
**Operation Permit No.:** 097-15061-00015  
**Permit Reviewer:** Boris Gorlin

On January 30, 2002, the Office of Environmental Services (OES) had a notice published in the Indianapolis Star, Indianapolis, Indiana, stating that Carrier Corporation had applied for a New Source Construction and Minor Source Operating Permit relating to the construction and operation of an aluminum air conditioning and furnace coil manufacturing facility. The notice also stated that OES proposed to issue a permit for this construction and operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

During the 30 public notice period OES received comments from the applicant (Carrier Corporation) and EPA, Region V. OES responses to these comments are stated below (changes are bolded, removed language is struck out).

**EPA, Region V comments:**

**1. Comment:**

On page 2 of the Appendix (Emissions Calculation): did you mean to include all 5 parts washer systems in this table(W-1, W-2 are not listed)?

**Response:**

The detergent concentrate used in the Part Washers EU ID's W-1 and W-2 contains no VOC (HAP), therefore they are not included in the potential emissions calculations.

**2. Comment:**

The permit uses "Petroleum Solvent"and "mineral spirit" interchangeably for Arrow KT -70-2-FR (see Potential Emissions at top of p. 1 Appendix and compare to p. 14, D.1 (b) Emission Unit Description)

**Response:**

According to MSDS submitted by the Applicant, the stamping fluid KT-70-2 FR is Petroleum Solvent. Therefore, the term "mineral spirit" was replaced throughout the permit and in the Calculation spreadsheet (Appendix A, Page 1) for "Petroleum Solvent" (see below).

**3. Comment:**

What process at the source necessitates a Soil Remediation System?

**Response:**

According to the source's history, and the Applicant information, the Soil and Water remediation System was voluntarily installed by Carrier Corporation (previously - United Technology Carrier) to remove perchloroethylene from the soil and perched groundwater at the site. The contamination resulted from past use of this solvent at the site. Carrier Corporation is currently working with IDEM to place the clean-up under the Indiana Voluntary Remediation Program in hopes of eventually obtaining a clean closure determination from the state of Indiana. The removal effort to date has been productive, as evidenced by the decreasing quantity of perchloroethylene available to be removed by the system.

No changes in Permit were made.

**Carrier Corporation Comments:**

**1. Comments:**

- (a) Carrier Corporation is hereby requesting the Draft New Source Construction and Minor Source Operating Permit issued be modified to provide for the construction of **two** new fin presses, **rather than three**.
- (b) In addition, Carrier is requesting that the potential-to-emit of the proposed fin presses be based on the same fin press evaporative metal stamping fluid, Arrow KT-70-2-FR, which is used in the four existing presses. Although the Arrow KT-70-2-FR contains 70% VOC, the maximum hourly metal stamping fluid usage rates will be the same as indicated in the previously submitted construction permit application for use of the 60% VOC Arrow 8997 FR Evaporative Lubricant in the new presses.
- (c) In section A.1 of the permit, Carrier would like to be listed as an air conditioning **and furnace** manufacturing facility;
- (d) In section A.2 (c), and in Section D.2 (a), the Soil Remediation System should be indicated as removing Perchloroethylene from **soil and** groundwater;
- (e) In section A.2 (e), emissions are exhausted through stacks PE-39 and **PE-50**.
- (f) **The capacity of the two new fin presses P-5 and P-6 should be listed as 556 lb/hr rolled aluminum feedstock, (it was mistakenly shown as 350 lb/hr in the permit application), as they have the capacity to run 36.75 inch wide, 0.0045" thick aluminum fin stock at up to 575 inches per minute feed rate. Maximum lubricant usage rate and, respectively, VOC PTE stay the same as in the permit calculation.**
- (g) In sections C.9 and C.12, Carrier requests that these sections begin by stating, either ***If required***, or ***If required by specific condition in section D,...***;

**Response:** Installation of two new fin presses, instead of three (as in the initial permit application), will bring the unrestricted sourcewide VOC PTE down to 89.9 tons per year (instead of 99.0 ton/yr).  
The following changes were made in the Permit:

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

---

The Permittee owns and operates stationary source, an aluminum air conditioning **and furnace** coil fin stock manufacturing facility.

A.2 Emissions units and Pollution Control Equipment Summary

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This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (a) ~~Three (3) new Burr Oak fin presses for stamping of aluminum feedstock to produce air conditioning coil fin stock, Emission Unit ID's P-5, P-6 and P-7, utilizing Evaporative Lubricant Arrow 8997 FR (mineral spirit) as metal stamping fluid containing 60% VOC by weight, with maximum capacity throughput 350 lb/min of feedstock rolled aluminum each. Fin presses EU ID P-5, P-6 and P-7 have not yet been installed.~~
- (a) ~~(b)~~ Four (4) existing Burr Oak fin presses Emission Unit IDs P-1, P-2, P-3, and P-4, with maximum capacity throughput of 500 pounds of feedstock rolled aluminum **per hour each, and two (2) new Burr Oak fin presses Emission Unit ID's P-5 and P-6, with maximum capacity throughput 556 pounds of feedstock rolled aluminum per hour each**, utilizing Arrow KT-70-2-FR as metal stamping fluid (~~mineral spirit~~ **petroleum solvent**) containing 70% VOC by weight. Emissions are exhausted to the atmosphere through the Stack GV-1.
- (b) ~~(c)~~ One (1) existing Soil Remediation System (removal of perchloroethylene from **soil and** groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 100 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 20 liters per minute or 115,707 gallons of water per year, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction. Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.
- (c) ~~(d)~~ Five (5) existing Aqueous Detergent Parts Washer Systems, Emission Unit ID's W-1, W-2, W-3, W-4, and W-5, consisting of wash/rinse furnaces burning natural gas with total maximum capacity of 29.1 million cubic feet of Natural Gas per year and parts washers using cleaners containing glycol ether with maximum usage capacity of 37,000 pounds per year each. Parts Washer Systems Emission Unit ID's W-2 and W-3 were installed in 1994, W-1 - in 1993, W-5 - in 1999. Emission are exhausted to the atmosphere through the Stacks PE-35, PE-15, PE-37, PE-45, and PE-41;
- (d) ~~(e)~~ Two (2) existing Autobrazers, Emission Units ID's AB-1 and AB-2, burning natural gas, with total maximum capacity of 11.8 million cubic feet of Natural Gas per year. Emission are exhausted to the atmosphere through the Stacks PE-39 and **PEB-50**.

C.9 Performance Testing [326 IAC 3-6]

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- (a) **If required by a specific condition in Section D of this approval**, compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, ~~if specified in Section D of this approval~~. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ and OES.

**C.12 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-6.1-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit, **if required by a specific condition in section D of this approval**, exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, and OES within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM, OAQ and OES shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ and OES reserves the authority to use enforcement activities to resolve noncompliant stack tests.

**3. Comment:**

Section C.17 of the permit is requested to be removed in its entirety, because the permit does not require compliance monitoring, and since the term deviation is not defined within the permit. This section appears to pertain more to Part 70 sources than to minor sources. In addition, the malfunction portion of the permit would appear to address any upset or excess emission reporting that would be applicable to a minor source.

**Response:**

No condition in section D of this Permit requires compliance monitoring and reporting. Therefore, Condition C.17 (General Reporting Requirements) was deleted, the Table of Content was corrected to reflect the deletion, and the following C Section condition was renumbered. The following changes were made in the permit:

**TABLE OF CONTENTS**

<b>C</b>	<b>SOURCE OPERATION CONDITIONS</b>	<b>6</b>
C.12	Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-6.1-5]	
	<b>Record Keeping and Reporting Requirements</b>	
C.13	Malfunctions Report [326 IAC 1-6-2]	
C.14	Annual Emission Statement [326 IAC 2-6]	
C.15	Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-3]	
C.16	General Record Keeping Requirements [326 IAC 2-6.1-2]	
<del>C.17</del>	<del>General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]</del>	
C.4817	Annual Notification [326 IAC 2-6.1-5(a)(5)]	
<b>D.1</b>	<b>Emissions unit OPERATION CONDITIONS - Seven (7) fin presses</b>	<b>1344</b>
	<b>Record Keeping and Reporting Requirements</b>	
D.1.2	Record Keeping Requirements	
<b>D.2</b>	<b>Emissions unit OPERATION CONDITIONS - Soil Remediation System</b>	<b>1445</b>
<b>D.3</b>	<b>Emissions unit OPERATION CONDITIONS - Five (5) Aqueous Detergent Parts Washer Systems</b>	<b>1546</b>
	<b>Emission Limitations and Standards</b>	
D.3.1	General Provisions [326 IAC 8-3-2]	

<b>Malfunction Report</b> .....	<b>1618</b>
<b>Annual Notification</b> .....	<b>1749</b>
<b>Affidavit of Construction</b> .....	<b>1820</b>

G.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) ~~To affirm that the source has met all the compliance monitoring requirements stated in this permit, the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

(b) ~~The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:~~

~~Indiana Department of Environmental Management  
Office of Air Quality, Compliance Data Section  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015~~

~~and~~

~~Office of Environmental Services  
Air Compliance Section  
2700 South Belmont Avenue  
Indianapolis, Indiana 46221~~

(c) ~~Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.~~

(d) ~~Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

(e) ~~All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:~~

~~(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or~~

~~(2) A malfunction as described in 326 IAC 1-6-2; or~~

~~(3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.~~

~~(4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.~~

~~A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.~~

~~(f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.~~

~~(g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.~~

**C.17 18 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

(a) Annual notification shall be submitted to the Office of Air Quality and OES stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

**SECTION D.1**

**EMISSIONS UNIT OPERATION CONDITIONS**

Emissions Unit Description:

(c) Four (4) existing Burr Oak fin presses Emission Unit IDs P-1, P-2, P-3, and P-4, with maximum capacity throughput of 500 pounds of feedstock rolled aluminum **per hour each, and two (2) new Burr Oak fin presses Emission Unit ID's P-5 and P-6, with maximum capacity throughput 556 pounds of feedstock rolled aluminum per hour each**, utilizing Arrow KT-70-2-FR as metal stamping fluid (~~mineral spirit~~ **petroleum solvent**) containing 70% VOC by weight. Emissions are exhausted to the atmosphere through the Stack GV-1.

~~(b) Four (4) existing Burr Oak fin presses Emission Unit IDs P-1, P-2, P-3, and P-4 utilizing Arrow KT-7-2-FR as metal stamping fluid (mineral spirit) containing 70% VOC by weight, with maximum capacity throughput of 500 pounds of feedstock rolled aluminum;~~

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards**

**D.1.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]**

Potential VOC emissions from each fin press Emission Unit IDs ~~## P-1 - P-6~~ **7** are less than 25 tons per year, therefore, the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply.

**Record Keeping and Reporting Requirements**

**D.1.2 Record Keeping Requirements**

(a) Records of the amount and VOC content of the metal stamping fluid Arrow ~~8997-FR and Arrow KT-7-2-FR~~ **KT-70-2-FR** shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type, amount used and the annual emissions.

(b) All records shall be maintained in accordance with Section C.16 - General Record Keeping Requirements, of this permit.



## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) existing Soil Remediation System (removal of perchloroethylene from **soil and** groundwater), Emission Unit ID SR-1, consisting of one (1) Soil Vapor Extraction Pump with maximum throughput capacity of 100 scfm of air, one (1) Air Sparging Pump, and one (1) Air Stripping Pump with maximum capacity of 20 liters per minute or 115,707 gallons of water per year, one (1) soil vent well and one (1) air stripping tower for Air Stripping and Soil Vapor Extraction (SVE). Emissions are exhausted to the atmosphere through Stack RE-2. This Soil Remediation System was installed in 1994.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Affidavit of Construction

4. I hereby certify that Carrier Corporation has constructed the following: **two (2) new Burr Oak fin presses for stamping of aluminum feedstock to produce air conditioning and furnace coil fin stock**, Emission Unit ID's P-5 **and P-6** ~~and P-7~~, utilizing as metal stamping fluid Evaporative Lubricant **Arrow KT-70-2-FR as metal stamping fluid (petroleum solvent) Arrow 8997-FR (mineral spirit)** containing **70% VOC** by weight, with maximum capacity throughput **350 556 lb/min** of feedstock rolled aluminum each, in conformity with the requirements and intent of the construction permit application received by the Office of Environmental Services on October 15, 2001 and as permitted pursuant to MSOP No. 097-15061-00015 issued on \_\_\_\_\_

4. **Comment:** As has been previously discussed, the portions of Section D.3 of the permit derived from Organic Solvent Degreasing Rules (326 IAC 8-3-2 and 8-3-5) are requested to be deleted due to their believed inapplicability to aqueous parts washers.

**Response:** According to 326 IAC 8.1-1 (b)&(c) (General Provisions Relating to VOC Rules), the Aqueous Detergent Parts Washer Systems, Emission Unit ID's W-1, W-2, W-3, W-4, and W-5, are not subject to the requirements of 326 IAC 8-3 (Organic Solvent Degreasing Operations) because their actual VOC emissions are below 15 pounds per day (unrestricted total PTE for five washers is 11.2 lb/day, 2.0 ton/yr). However, if, as a result of any change or modification, their actual emissions reaches 15 lb/day, the source will be required to apply for a permitting approval for such change or modification.

- D.3.1 **326 IAC 8-1-1 (b) & (c) (General Provisions relating to VOC rules: applicability)**  
**326 IAC 8-3 (Organic Solvent Degreasing Operations)**  
~~Organic Solvent Degreasing Operations (326 IAC 8-3-1)~~  
~~Cold cleaner degreaser operation and control (326 IAC 8-3-5)~~

**Any change or modification to the Emission Units ID's W-1, W-2, W-3, W-4, and W-5 which may increase their individual actual VOC emission before add-on controls to 15 pounds per day shall obtain prior approval from the Environmental Resource Management Division (OES) and IDEM Office of Air Quality (OAQ).**

**Compliance with this conditions shall make the 326 8-3 (Organic Solvent Degreasing Operations) not applicable.**

- ~~(a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), the owner or operator of this facility shall:~~  
~~(1) equip the cleaner with a cover;~~

TSD Addendum

- ~~(2) equip the cleaner with a facility for draining cleaned parts;~~
- ~~(3) close the degreaser cover whenever parts are not being handled in the cleaner;~~
- ~~(4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;~~
- ~~(5) provide a permanent, conspicuous label summarizing the operating requirements;~~
- ~~(6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.~~
- ~~(b) Pursuant to 326 IAC 8-3-5 (Cold cleaner degreaser operation and control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:~~
  - ~~(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - ~~(A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));~~
    - ~~(B) the solvent is agitated; or~~
    - ~~(C) the solvent is heated.~~~~
  - ~~(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.~~
  - ~~(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).~~
  - ~~(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.~~
  - ~~(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
    - ~~(a) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.~~
    - ~~(b) A water cover when solvent used is insoluble in, and heavier than, water.~~
    - ~~(c) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.~~~~
- ~~(c) Pursuant to 326 IAC 8-3-5 (b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:~~
  - ~~(1) Close the cover whenever articles are not being handled in the degreaser.~~

- 
- ~~(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.~~
- 
- ~~(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.~~

## Record Keeping and Reporting Requirements

### D.3.2 Record Keeping Requirements

- (a) Records of the amount and VOC/HAP content of the cleaners used in the parts washers Emission Units ID's W-1, W-2, W-3, W-4, and W-5 shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type, amount used and the annual emissions.
- (b) All records shall be maintained in accordance with Section C.16 - General Record Keeping Requirements, of this permit.

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Additionally to the above mentioned changes, the Condition B.6 (e) was deleted and replaced by added Condition B.7 (Permit Term). The following changes in the permit Section B (General Construction Conditions) and the Table of Contents were made:

### B.6 Minor Source Operating Permit [326 IAC 2-6.1]

- ~~(e) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in the validation letter. If IDEM, OAG, and OES, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section G and Section D of this permit.~~

### B.7 Permit Term [326 IAC 2-6.1-7(a)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

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- B.6 Minor Source Operating Permit [326 IAC 2-6.1]  
B.7 Permit Term [326 IAC 2-6.1-7(a)]

**Company:** Carrier Corporation  
**Address:** 7310 West Morris Street  
**Permit No.:** 097-15061-00015  
**Plt ID:** 097-00015  
**Reviewer:** B. Gorlin

## POTENTIAL EMISSIONS

Four (4) Burr Oak Tool and Gage fin press, Emission Unit ID's: P-1, P-2, P-3, and P-4  
 Two (2) Burr Oak Tool and Gage fin press, Emission Unit ID's: P-5, P-6

Evaporative Lubricant	Constituents	VOC	HAP
Arrow KT-70-2-FR	Petroleum Solvent	4.55 lb voc/gal	Not listed

	Existing presses (4)	New presses (2)
Maximum Usage rate, gal/hr of lubricant (one press)	0.695	0.800
VOC, lb/gal	4.55	4.55
Potential Emission rate, lb/hr of VOC (one press)	3.16	3.64
PTE, ton/yr (one press)	13.85	15.94
Total, ton/yr of VOC	<b>55.403</b>	<b>31.886</b>
<b>Total (7 presses):</b>	<b>87.289</b>	ton/yr of VOC

## Soil Remediation System Potential Emissions

### SVE Exhaust

Maximum concentration of PCE (Perchloroethylene), mkg/l	107.46
Exhaust flow, scfm:	100
Exhaust flow, l/hr:	169,902
PCE Potential Emission:	
lb/day	0.9640
lb/yr	351.86
ton/yr	<b>0.176</b>

### Water Stripper

Maximum concentration of PCE (Perchloroethylene), mg/l	12
Exhaust flow, l/month	285,221
PCE Potential Emission:	
lb/month	7.53
lb/yr	90.358
ton/yr	<b>0.045</b>

<b>Total PCE PTE, ton/yr</b>	<b>0.221</b>
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**Company:** Carrier Corporation  
**Address:** 7310 West Morris Street  
**Permit No.:** 097-15061-00015  
**Plt ID:** 097-00015  
**Reviewer:** B. Gorlin

**Aqueous Detergent Parts Washer Systems**

EU ID#	Cleaner Throughput Capacity, lb/yr	Glycol Ether weight %	PTE	
			ton/yr	lb/day
W-3	37,000	1%	0.185	1.014
W-4	37,000	5%	0.925	5.068
W-5	37,000	5%	0.925	5.068
<b>Total Glycol Ether PTE, ton/yr:</b>			<b>2.035</b>	<b>11.151</b>

**Total Sourcewide Potential Emissions, ton/yr:**

PM/PM10	<b>0.246</b>
SO2	<b>0.012</b>
NOx	<b>2.049</b>
VOC	<b>89.885</b>
CO	<b>0.430</b>
HAPs	<b>2.256</b>

**Company:** Carrier Corporation  
**Address:** 7310 West Morris Street  
**Permit No.:** 097-15061-00015  
**Plt ID:** 097-00015  
**Reviewer:** B. Gorlin

## Natural Gas

### Autobrazers PTE

		MMscf/year	TPY	TPY	TPY	TPY	TPY
Unit ID #	S/V ID	Potential Throughput, MMScf/yr	PM/PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
AB-1	PE-39	4.306	0.026	0.001	0.215	0.017	0.045
AB-2	PE-50	7.518	0.045	0.002	0.376	0.030	0.079
<b>Totals:</b>		<b>11.824</b>	<b>0.071</b>	<b>0.004</b>	<b>0.591</b>	<b>0.047</b>	<b>0.124</b>

### Aqueous Detergent Parts Washer Systems

		MMscf/year	TPY	TPY	TPY	TPY	TPY
Unit ID #	S/V ID	Potential Throughput, MMScf/yr	PM/PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
W-1	PE-39	5.416	0.032	0.002	0.271	0.022	0.057
W-2	PE-39	3.082	0.018	0.001	0.154	0.012	0.032
W-3	PE-39	9.630	0.058	0.003	0.482	0.039	0.101
W-4	PE-39	5.639	0.034	0.002	0.282	0.023	0.059
W-5	PE-39	5.383	0.032	0.002	0.269	0.022	0.057
<b>Totals:</b>		<b>29.149</b>	<b>0.175</b>	<b>0.009</b>	<b>1.457</b>	<b>0.117</b>	<b>0.306</b>

<b>Total (Nat. Gas burning) PTE:</b>	40.973	<b>0.246</b>	<b>0.012</b>	<b>2.049</b>	<b>0.164</b>	<b>0.430</b>
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Emission Factors are from AP 42

Assuming all particulates are less than 10 Micrometers in diameter

Emission (tons/yr)=Throughput (MMscf/yr) x Emission Factor (lb/MMcsf) /2000 lb/ton, or:

### Emission Factors, lb/MMcsf

MMBtu/hr	PM	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
<b>0.3-10</b>	12	0.6	100	8	21